Title (en)

Pitch extraction methods and systems for speech coding using multiple time lag extraction

Title (de)

Verfahren und Vorrichtungen zur Grundfrequenz-Extraction für Sprachkodierung mittels Interpolation

Title (fr)

Méthodes et dispositifs d'extraction de la fréquence fondamentale pour codage de la parole utilisant des techniques d'interpolation

Publication

EP 1335349 A3 20040908 (EN)

Application

EP 03250690 A 20030204

Priority

- US 35422102 P 20020206
- US 28429502 A 20021031

Abstract (en)

[origin: EP1335349A2] A method of attempting to determine a pitch period of an audio signal using a correlation-based signal derived from the audio signal. The correlation-based signal has known peaks each corresponding to a respective one of known time lags. The method comprises: identifying a time lag among the time lags; determining if there exists another time lag (i) within a time lag range of a respective one of one or more integer multiples of the identified time lag, and (ii) corresponding to a peak exceeding a peak threshold; and if the determination of step (a) passes, then returning the identified time lag as a time lag indicative of the pitch period. <IMAGE>

IPC 1-7

G10L 11/04

IPC 8 full level

G10L 25/90 (2013.01)

CPC (source: EP US)

G10L 25/90 (2013.01 - EP US)

Citation (search report)

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- [X] US 5774836 A 19980630 - BARTKOWIAK JOHN G [US], et al
- [A] LEFEVRE J P ET AL: "PITCH DETECTION BASED ON LOCALIZATION SIGNAL", SIGNAL PROCESSING THEORIES AND APPLICATIONS. BARCELONA, SEPT. 18 - 21, 1990, PROCEEDINGS OF THE EUROPEAN SIGNAL PROCESSING CONFERENCE, AMSTERDAM, ELSEVIER, NL, vol. 2 CONF. 5, 18 September 1990 (1990-09-18), pages 1159 - 1162, XP000365760

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US8600738B2; CN113272896A; WO2008151579A1; US11948590B2; US11990146B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

EP 1335349 A2 20030813; **EP 1335349 A3 20040908**; **EP 1335349 B1 20060503**; DE 60304909 D1 20060608; DE 60304909 T2 20070125; US 2003177001 A1 20030918; US 7529661 B2 20090505

DOCDB simple family (application)

EP 03250690 A 20030204; DE 60304909 T 20030204; US 28429502 A 20021031